



PRODUCT DATASHEET

QIClick

High Speed Imaging – View a cell at 30fps

1.4 Mega Pixel for High Resolution Images

Highly Versatile

The QImaging QIClick™ digital CCD camera provides solid performance and combines speed with resolution which allows for great adaptability to all imaging requirements.

The IEEE 1394 FireWire Interface allows for Plug and Play simplicity with installation and ensures that a standard interface is available on all computers.

The QIClick comes with QCapture Suite out of the box for quick software installation. It also comes with extensive application support allowing for easy integration into any setup.

applications

- Brightfield, Phase-Contrast, & Darkfield Microscopy
- Pathology, Histology, & Cytology
- Fluorescence Microscopy
- Green Fluorescent Protein (GFP) Applications
- = FISH
- Ca++ Ratio Analysis
- Motility & Motion Analysis
- DNA Analysis
- Metallurgical Microscopy
- Semiconductor Inspection
- Manufacturing Quality Control
- Failure Analysis
- Forensic Analysis

Scientific Digital CCD Camera - Monochrome or Color



Note: Lens is shown for illustration only and is not included.

features	benefits
High Quantum Efficiency	• Sensitivity for demanding imaging applications
High-Resolution, 1.4-Million-Pixel Sensor	■ Highly detailed, sharp images
High-Speed Readout	 Previewing & focusing in real time 110fps with 8x8 binning & ROI 10fps full resolution @ 12 bits Ideal for automated imaging applications
Low-Noise	 Quantitation & imaging of low light levels
Flexible Exposure Control from 10µs to 17.9min	Optimal integration over a wide range of light levels
External Sync & Trigger	■ Tight synchronization with flashlamps, automated filters, shutters, & microscope stages
Binning	 Increases sensitivity for quantitation & imaging of very low light levels Increases frame rate – 30fps @ 512x512 with 2x2 binning
IEEE 1394 FireWire™ Qlmaging Fast 1394 Technology	 Simple connectivity Ease of use & installation Portability with laptop computer Simultaneous use of multiple cameras through a single port Single-cable operation (no external power supply or control unit)
Extensive Application Software Support	 Grows with your imaging needs and requirements Choose from a large selection of life science & industrial software for microscopy, machine vision, & video-streaming functions

QIClick Specifications

Light-Sensitive Pixels 1.4 million; 1392 x 1040 2x2, 4x4, 8x8 Exposure/Integration Control 10µs to 17.9min in 1µs increments Sensor Type Sony® ICX285 progressive-scan interline CCD (monochrome or color) Pixel Size 6.45µm x 6.45µm Linear Full Well 18,000e- (22,000e- with 2x2 binning) Read Noise 8e- Dark Current 1.5 e/p/s − Passively cooled to ambient temperature for low dark curre Digital Output 12 bits Readout Frequency 20, 10, 5, 2.5MHz Tofps full resolution ® 12 bits (165fps maximum with binning and RO functions) Camera Computer Platforms/ Operating Systems Windows 7 (64/32 bit), Windows Vista (64/32 bit), & Mac OS X Digital Interface External Trigger TIL Input (optically coupled) Exposures • Sequences of images External Sync TIL Output (optically coupled) 0.7 to 30x • 1X: High Resolution Imaging • 0.7X: Large Field of View Power Requirements Weight 640g Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122′F)		
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Computer Platforms/ Operating Systems Windows 7 (64/32 bit), Windows Vista (64/32 bit), & Mac OS X Digital Interface IEEE 1394 FireWire™ External Trigger TTL Input (optically coupled) Trigger ■ Exposures ■ Sequences of images External Sync TTL Output (optically coupled) Gain Control 0.7 to 30x C-mount ■ 1X: High Resolution Imaging ■ 0.7X: Large Field of View Power Requirements Supply through FireWire Interface. (External supply required for Laptop Weight 640g Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	Frame Rate	10fps full resolution @ 12 bits (165fps maximum with binning and ROI functions)
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External Trigger TTL Input (optically coupled) Exposures Sequences of images External Sync TTL Output (optically coupled) Gain Control 0.7 to 30x 1X: High Resolution Imaging 0.7X: Large Field of View Power Requirements Supply through FireWire Interface. (External supply required for Laptop Weight 640g Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	Computer Platforms/ Operating Systems	Windows 7 (64/32 bit), Windows Vista (64/32 bit), & Mac OS X
Trigger ■ Exposures ■ Sequences of images External Sync TTL Output (optically coupled) Gain Control 0.7 to 30x C-mount ■ 1X: High Resolution Imaging ■ 0.7X: Large Field of View Power Requirements Supply through FireWire Interface. (External supply required for Laptop Weight 640g Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	Digital Interface	IEEE 1394 FireWire™
■ Sequences of images External Sync TTL Output (optically coupled) Gain Control 0.7 to 30x ■ 1X: High Resolution Imaging ■ 0.7X: Large Field of View Power Requirements Supply through FireWire Interface. (External supply required for Laptop Weight 640g Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	External Trigger	TTL Input (optically coupled)
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C-mount ■ 1X: High Resolution Imaging ■ 0.7X: Large Field of View Supply through FireWire Interface. (External supply required for Laptop Weight 640g Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	Trigger	■ Exposures
■ 0.7X: Large Field of View Power Requirements Supply through FireWire Interface. (External supply required for Laptop Weight 640g Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	Trigger External Sync	ExposuresSequences of images
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Warranty 2 years (Additional +5 year option available) Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	External Sync	 Exposures Sequences of images TTL Output (optically coupled) 0.7 to 30x 1X: High Resolution Imaging
Operating Environment 0 to 50°C (32 to 122°F) Storage Temperature -10 to 60°C	External Sync Gain Control	 Exposures Sequences of images TTL Output (optically coupled) 0.7 to 30x 1X: High Resolution Imaging 0.7X: Large Field of View
Storage Temperature -10 to 60°C	External Sync Gain Control C-mount	 Exposures Sequences of images TTL Output (optically coupled) 0.7 to 30x 1X: High Resolution Imaging 0.7X: Large Field of View Supply through FireWire Interface. (External supply required for Laptops)
	External Sync Gain Control C-mount Power Requirements	 Exposures Sequences of images TTL Output (optically coupled) 0.7 to 30x 1X: High Resolution Imaging 0.7X: Large Field of View Supply through FireWire Interface. (External supply required for Laptops 640g
Humidity Less than 80% non-condensing at 35°C (95°F)	External Sync Gain Control C-mount Power Requirements Weight	 Exposures Sequences of images TTL Output (optically coupled) 0.7 to 30x 1X: High Resolution Imaging 0.7X: Large Field of View Supply through FireWire Interface. (External supply required for Laptops 640g 2 years (Additional +5 year option available)
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included

QIClick Digital CCD Camera

Model: QIClick-F-M-12 (monochrome, 12-bit) Model: QIClick-F-CLR-12 (CCD color, Bayer Mosaic, 12-bit)

- *IEEE1394 FireWire cable*
- IEEE1394 FireWire PCI card
- QCapture software
- Access to SDK

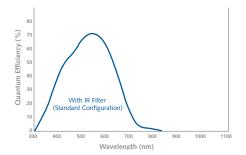
camera options

- Removable IR-Cutoff Filter
- RGB Color Filter for monochrome cameras (F-mount interface required), refer to spec sheet for more details



■ Performance Assurance Program (extended warranty)

spectral response







Rev A2